

IPOTENUSA \rightarrow LATO OBLIQUO

CATETO MAGG \rightarrow ALTEZZA

CATETO MINORE \rightarrow METÀ BASE

$$\overline{BC} = \sqrt{\overline{HB}^2 + \overline{CH}^2}$$

$$\overline{HB} = \sqrt{\overline{BC}^2 - \overline{CH}^2}$$

$$\overline{AB} = \overline{HB} \cdot 2$$

$$\overline{CH} = \sqrt{\overline{BC}^2 - \overline{HB}^2}$$



$$\begin{aligned} \overline{BC} &\stackrel{D}{=} \overline{CA} \\ \overline{AB} + \overline{CH} &= 165 \text{ cm} \\ \overline{AB} &= 8 \overline{CH} \end{aligned}$$

2p
A

$$\overline{AB} : \overline{CH} = 8 : 3$$

$$(\overline{AB} + \overline{CH}) : \overline{AB} = (8 + 3) : 8$$

$$165 : \overline{AB} = 11 : 8$$

$$\overline{AB} = \frac{165 \cdot 8}{11} = 120 \text{ cm}$$

$$\overline{CH} = (\overline{AB} + \overline{CH}) - \overline{AB} = 165 - 120 = 45$$

$$\overline{HB} = \overline{AB} : 2 = 120 : 2 = 60 \text{ cm}$$

$$\overline{BC} = \sqrt{\overline{HB}^2 + \overline{CH}^2} = \sqrt{60^2 + 45^2} = \sqrt{3600 + 2025} = \sqrt{5625} = 75 \text{ cm}$$

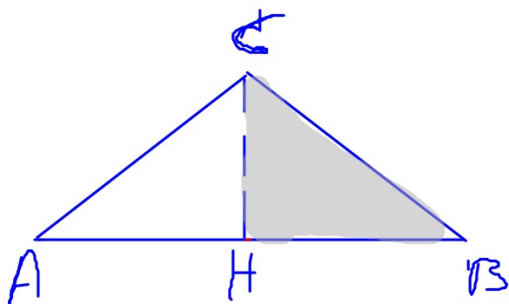
$$z_p = \overline{AB} + \overline{BC} \cdot 2 = 120 + 75 \cdot 2 = 120 + 150 = 270 \text{ cm}$$

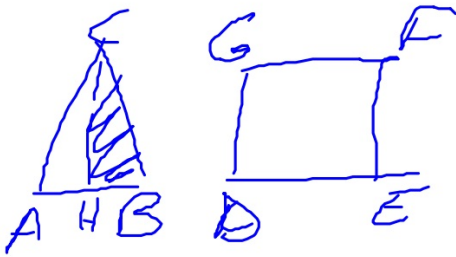
$$A = \frac{\overline{AB} \cdot \overline{CH}}{2} = \frac{120 \cdot 60}{2} = 3600 \text{ cm}^2$$

1 : 15

$$U^2 = 2700 : 17 = 158.82 \text{ cm}^2$$

$$U = \sqrt{U^2} = \sqrt{158.82} = 12.60 \text{ cm}$$





$$\begin{array}{l|l} \overline{BC} \stackrel{D}{=} \overline{DA} & A_2 \\ \overline{BC} = \frac{13}{10} \overline{AB} & \\ \overline{BC} - \overline{AB} = 9 \text{ cm} & A_1 \\ 2p_1 = 2p_2 & \end{array}$$

$$\overline{BC} : \overline{AB} = 13 : 10$$

$$(\overline{BC} - \overline{AB}) : \overline{BC} = (13 - 10) : 13$$

$$9 : \overline{BC} = 3 : 13$$

$$\overline{BC} = \frac{9 \cdot 13}{3} = 39 \text{ cm}$$

$$\overline{AB} = \overline{BC} - (\overline{BC} - \overline{AB}) = 39 - 9 = 30 \text{ cm}$$

$$HB = \overline{AB} : 2 = 30 : 2 = 15 \text{ cm}$$

$$CH = \sqrt{BC^2 - HB^2} = \sqrt{38^2 - 15^2} = \sqrt{1528 - 225} = \\ = \sqrt{1286} = 36 \text{ cm}$$

$$2p_1 = \overline{AB} + \overline{BC} \cdot 2 = 30 + 38 \cdot 2 = 30 + 78 = 108 \text{ cm}$$

$$2p_2 = 108 \text{ cm}$$

$$EF = 2p_2 : 4 = 108 : 4 = 27 \text{ cm}$$

$$A_2 = EF^2 = 27^2 = 729 \text{ cm}^2$$

$$A_1 = \frac{\overline{AB} \cdot \overline{CH}}{2} = \frac{30 \cdot \overset{18}{\cancel{36}}}{\underset{1}{2}} = 540 \text{ cm}^2$$

$$1:6$$

$$AB \rightarrow 5$$

$$CH \rightarrow 6$$

$$EF \rightarrow 27:6 = 4,5$$

$$\underline{30}$$

